

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Dichloromethane-d2

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CAS-No.	1665-00-5
EC-No.	216-776-0
Product code	None.
Synonyms	None.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Preparation	Solvent for NMR spectroscopy
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	ARMAR AG Müligasse 7 CH-5312 Döttingen Schweiz Tel. +41 56 245 2600 admin@armar.ch
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1.4. Emergency telephone number	Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]
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Issuing date	05.07.2013
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Version	GHS 2
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2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)

Carcinogenicity, Cat. 2, H351

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Carc. Cat. 3; R40

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Warning

Hazard Statements

H351: Suspected of causing cancer.

Precautionary statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.

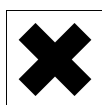
Additional advice

None.

GHS product identifier

Dichloromethane-d2, CAS-No. 1665-00-5, EC-No. 216-776-0

Labelling according to Directives 67/548/EEC or 1999/45/EC



Xn - Harmful.

R-phrases(s)

R40: Limited evidence of a carcinogenic effect.

S-phrases(s)

S23: Do not breathe vapour

S24/25: Avoid contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves.

Hazardous component(s) which must be listed on the label

None.

2.3. Other hazards

No information available.

3. Composition/information on ingredients

Components		Product identifier
Dichloromethane-d2	>90%	CAS-No.: 1665-00-5 EC-No.: 216-776-0

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash off with soap and water.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion If conscious, drink plenty of water. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture No data is available on the product itself.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires.

Specific methods No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	No special measures required.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Clean up promptly by sweeping or vacuum. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. Handling and storage

7.1. Precautions for safe handling Provide sufficient air exchange and/or exhaust in work rooms.

7.2. Conditions for safe storage, including any incompatibilities Store at room temperature in the original container.

7.3. Specific end use(s) No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) MAK (Maximale Arbeitsplatzkonzentration): 50 ppm.

8.2. Exposure controls

Occupational exposure controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In the case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection Gloves made of VITON.

Eye protection Safety glasses.

Skin and body protection No special measures required.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Sweet.
Odour Threshold	No information available.
pH:	n.a.
Melting point/range:	-97°C
Boiling point/range:	40°C
Flash point:	n.a.
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	476 mbar (20°C)
Vapor density:	2.93
Relative density:	1.36 g/ml
Water solubility:	20 g/ (20°C)
Partition coefficient (n-octanol/water):	1.25
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Combustion/explosion hazards:	not hazardous
Oxidizing properties:	None

9.2. Other information

General Product Characteristics	No information available.
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10. Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Do not freeze. Heating in air.
10.5. Incompatible materials	Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.
10.6. Hazardous decomposition products	None under normal use.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD50/oral/rat = 1600 mg/kg.
Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory / Skin Sensitisation	No data available.
Carcinogenicity	Possible carcinogen.
Germ cell mutagenicity	In vitro tests showed mutagenic effects.
Reproductive toxicity	Classification not possible from current data.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

12. Ecological information

12.1. Toxicity	EC50/48h/daphnia = 220 mg/l. LC50/48h/golden orfe = 528 mg/l. EC50/72h/algae = 2300 mg/l. IC50 / Toxicity to bacteria: 315 mg/l.
12.2. Persistence and degradability	Biological degradability 100 %.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	No information available.

14. Transport information

ADR/RID	Proper shipping name DICHLOROMETHANE UN No 1593. Class 6.1. Packing group III. ADR/RID-Labels 6.1. Classification code T1. Risk No. 60. Limited quantity 5 L. Tunnel code E
IMO	Proper shipping name Dichloromethane UN No 1593. Class 6.1. Packing group III. ADR/RID-Labels 6.1. Limited quantity 5 L. EmS F-A, S-A. Marine Pollutant no
ICAO	Proper shipping name Dichloromethane UN No 1593. Class 6.1. Packing group III. Packing instruction (passenger aircraft): 655 (60 L). Packing instruction (LQ): Y642 (2 L). Packing instruction (cargo aircraft): 663 (220 L).
Inland navigation ADN	Proper shipping name DICHLOROMETHANE UN No 1593. Class 6.1. Packing group III. ADN danger 6.1.
Further Information	None.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).
The product is classified and labelled in accordance with Directive 1999/45/EC.

15.2. Chemical safety assessment Not required.

16. Other information

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)
DSD/DPD: Classification according to EU Directives 67/548/EEC or 1999/45/EC
MAK: Maximale Arbeitsplatzkonzentration.

Full text of phrases referred to under sections 2 and 3 H351: Suspected of causing cancer.

R40: Limited evidence of a carcinogenic effect.

Further information Take notice of the directions of use on the label.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.